Pest Management Regulatory Agency
Agence de réglementation de la lutte antiparasitaire

Reduced-Risk Update

RR2006-03

Update on Reduced-Risk Pesticides in Canada

The purpose of this document is to provide stakeholders with information on the registration of reduced-risk pest control products and uses in Canada. The reduced-risk designation is provided to uses of active ingredients that are registered through the North American Free Trade Agreement (NAFTA) Joint Review Program for Reduced-Risk Pesticides (*Updated Procedures for Joint Review of Chemical Pesticides*, March 2002) and the Pest Management Regulatory Agency (PMRA) Initiative for Reduced-Risk Pesticides (Regulatory Directive DIR2002-02). This designation includes products registered in Canada for which reduced-risk designation was received in the United States.

This document presents the reduced-risk chemical active ingredients and uses currently registered in Canada, reduced-risk chemical active ingredients registered or pending registration in Canada and in the United States, as well as biopesticides registered in Canada. This document also provides the percentage of reduced-risk chemical active ingredients currently registered or pending registration in Canada as compared to the United States. These tables will be updated on a regular basis as new products and information become available.

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Overview

The PMRA recognizes the need to encourage registration of new reduced-risk pesticides and has acted upon a government commitment to pursue harmonization as one of the key means of achieving efficiencies and facilitating access to new lower-risk technology. To facilitate the registration of reduced-risk pesticides, the PMRA, the United States Environmental Protection Agency (USEPA) and pesticide regulatory agencies in Mexico collaborated to establish the Joint Review Program for Reduced-Risk Chemicals in 1996, under the NAFTA Technical Working Group on Pesticides.

Expanding upon the Joint Review program, the PMRA put in place the Initiative for Reduced Risk Pesticides (DIR2002-02) to encourage pesticide manufacturers to apply for Canadian registration of reduced-risk products that are currently available in the United States. This program provides an expedited timeframe for the registration of products that qualify as reduced risk. Under this program, the PMRA uses the same criteria as the USEPA to determine eligibility of chemicals for the reduced-risk program and recognizes the USEPA's biopesticide designation.

The reduced-risk designation does not imply that a product exhibits no risk. A reduced-risk pesticide may have a slightly improved risk profile when compared to other registered pesticides with the same use pattern. Expedited review times for reduced-risk products do not compromise Canadian health and environmental safety standards as all pesticides under consideration must undergo a thorough evaluation and risk assessment. Registration of a pesticide is considered only if the health and environmental risks are acceptable and if the product is effective.

This document presents the reduced-risk chemical active ingredients and uses currently registered in Canada (Table 1a and 1b), reduced-risk chemical active ingredients registered or pending registration in Canada and in the United States (Table 2) as well as biopesticides registered in Canada (Table 3a, 3b and 3c). This document also provides the percentage of reduced-risk chemical active ingredients currently registered or pending registration as compared to the United States (Table 2). These tables will be updated on a regular basis as new products and information become available.

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Table 1a Reduced-risk Chemical Active Ingredients, End-use Products and Uses Registered in Canada—Commercial Products (30 September 2006)

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Acetamiprid	4	Tristar 70 WSP	Insecticide	27127	Flowers
					Ornamentals
		Assail 70 WP	Insecticide	27128	Amaranth leafy
					Apple
					Arugula
					Broccoli
					Broccoli (Chinese)
					Broccoli raab
					Brussel sprout
					Cabbage
					Cabbage (Chinese, bok choy)
					Cabbage (Chinese mustard, gai choy)
					Cabbage (Chinese, napa)
					Cardoon
					Cauliflower
					Cavalo broccolo
					Celery
					Celery (Chinese)
					Celtuce
					Chevril
					Chrysanthemum (edible leaved)
					Chrysanthemum (garland)
					Citrus (dried pulp)
					Collards
					Corn salad
					Crabapple
					Cress (garland)
					Cress (upland)
					Dandelion leaves
					Dock
					Endive
					Florence fennel
					Grape
					Kale
					Kohlrabi

Table 1a Reduced-risk Chemical Active Ingredients, End-use Products and Uses Registered in Canada—Commercial Products (30 September 2006)

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Acetamiprid	4	Tristar 70 WSP	Insecticide	27127	Flowers
					Ornamentals
		Assail 70 WP	Insecticide	27128	Amaranth leafy
					Apple
					Arugula
					Broccoli
					Broccoli (Chinese)
					Broccoli raab
					Brussel sprout
					Cabbage
					Cabbage (Chinese, bok choy)
					Cabbage (Chinese mustard, gai choy)
					Cabbage (Chinese, napa)
					Cardoon
					Cauliflower
					Cavalo broccolo
					Celery
					Celery (Chinese)
					Celtuce
					Chevril
					Chrysanthemum (edible leaved)
					Chrysanthemum (garland)
					Citrus (dried pulp)
					Collards
					Corn salad
					Crabapple
					Cress (garland)
					Cress (upland)
					Dandelion leaves
					Dock
					Endive
					Florence fennel
					Grape
					Kale
					Kohlrabi

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Acetamiprid (cont'd)					Lettuce (head)
					Lettuce (leaf)
					Mizuna
					Mustard greens
					Mustard spinach
					Orach
					Parsley leaves
					Pear
					Pear (Oriental)
					Potato
					Purslane (garden)
					Purslane (winter)
					Quince
					Radicchio
					Rape greens
					Rhubarb
					Spinach
					Spinach (New Zealand)
					Spinach (vine)
					Swiss chard
					Tomato (field)
		Assail 70 WP Seed Treatment	Insecticide	27286	Canola seed
					Mustard seed
		Assail 50 FS Seed Treatment	Insecticide	28119	Canola seed
					Mustard seed
Aminopyralid	1	Aminopyralid Herbicide	Herbicide	28137	Industrial
					Non-crop areas
					Pasture
					Rangeland
					Wheat (durum)
					Wheat (spring)
Azoxystrobin	6	Quadris	Fungicide	26151	Canola
		Quadris Flowable	Fungicide	26153	Bean (adzuki)
					Bean (asparagus)
					Bean (broad, dry)
					Bean (field)
					Bean (kidney)
					Bean (lima, dry)
					Bean (lima, green)
					Bean (moth)
					Bean (mung)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Azoxystrobin (cont'd)					Bean (navy)
					Bean (pinto)
					Bean (runner)
					Bean (snap)
					Bean (wax)
					Bean (yardlong)
					Beet (garden)
					Canola
					Carrot
					Chickpea
					Chinese longbean
					Corn (field)
					Corn (sweet)
					Corn seed
					Cowpea
					Filbert
					Ginseng
					Hazelnut
					Horseradish
					Jackbean
					Lentil
					Lupin (grain)
					Lupin (sweet)
					Lupin (white sweet)
					Lupin (white)
					Pea (black-eyed)
					Pea (dwarf)
					Pea (edible-podded)
					Pea (English)
					Pea (field)
					Pea (garden)
					Pea (green)
					Pea (pigeon)
					Pea (snow)
					Pea (southern)
					Pea (sugar snap)
					Potato
					Radish
					Radish (Oriental)
					Rutabaga
					Soybean
					Soybean (immature seed)
					Sugar beet

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Azoxystrobin (cont'd)					Tomato (field)
					Turnip
		Abound 80 WG	Fungicide	26154	Grape
		Heritage	Fungicide	26155	Turf
		Abound Flowable	Fungicide	26536	Grape
		Dynasty 100FS	Fungicide	28394	Corn
Bifenazate	2	Floramite SC	Insecticide	27924	Cucumber (greenhouse)
					Ornamentals (indoor)
					Tomato (greenhouse)
		Acramite 50 WS	Acaricide	27925	Apple
					Grape
Boscalid (BAS 510F)	2	Lance WDG (BAS 510 02 F)	Fungicide	27495	Apricot
					Bean (adzuki)
					Bean (asparagus)
					Bean (black)
					Bean (broad, dry)
					Bean (broad, succulent)
					Bean (cranberry)
					Bean (field)
					Bean (kidney)
					Bean (lima, dry)
					Bean (lima, green)
					Bean (moth)
					Bean (mung)
					Bean (navy)
					Bean (pink)
					Bean (pinto)
					Bean (podded)
					Bean (rice)
					Bean (runner)
					Bean (snap)
					Bean (tepary)
					Bean (urd)
					Bean (wax)
					Bean (yardlong)
					Blackberry
					Blackeyed pea
					Blueberry (highbush and lowbush)
					Canola
					Carrot
					Catang

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Boscalid (BAS 510F) (cont'd)					Cherry (ground)
					Cherry (sweet and tart)
					Chickpea
					Cowpea
					Currant
					Eggplant
					Elderberry
					Garlic
					Garlic (great-headed)
					Gooseberry
					Grape
					Huckleberry
					Jackbean
					Leek
					Lentil
					Lettuce (field—head and leaf)
					Loganberry
					Longbean (Chinese)
					Lupin (grain)
					Lupin (sweet)
					Lupin (white)
					Lupin (white sweet)
					Nectarine
					Onion (dry bulb and green)
					Onion (Welch)
					Pea (Crowder)
					Pea (dry)
					Pea (dwarf)
					Pea (edible-podded)
					Pea (English)
					Pea (garden)
					Pea (green)
					Pea (pigeon)
					Pea (southern)
					Pea (sugar snap)
					Peach
					Pepino
					Pepper (bell)
					Pepper (chili)
					Pepper (cooking)
					Pepper (field)
					Pepper (sweet)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Boscalid (BAS 510F) (cont'd)					Pimento
					Plum
					Plum (chickasaw)
					Plum (damson)
					Plum (Japanese)
					Plumcot
					Potato
					Prune
					Raspberry (black and red)
					Snow pea
					Shallot
					Strawberry
					Tomatillo
					Tomato (field)
		Cadence WDG (BAS 510 02 F Turf)	Fungicide	27496	Turf
Cyazofamid	1	Ranman 400 SC	Fungicide	27984	Potato
Cyprodinil	3	Vangard 75 WG	Fungicide	25509	Apple
					Apricot
					Grape
					Nectarine
					Peach
					Plum
					Prune
		Vangard 75 WP	Fungicide	25577	Apple
					Apricot
					Grape
					Nectarine
					Peach
					Plum
					Prune
		Switch 62.5	Fungicide	28189	Onion (dry bulb)
					Onion (green)
					Strawberry
Diflufenzopyr	2	Distinct Herbicide (Agricultural)	Herbicide	25811	Corn (field)
		Distinct WDG	Herbicide	26406	Corn (field)
Fenamidone	1	Reason 500 SC	Fungicide	27462	Potato
Fenhexamid	2	Elevate 50 WDG	Fungicide	25900	Cherry

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Fenhexamid (cont'd)					Grape
					Nectarine
					Peach
					Strawberry
		Decree 50 WDG	Fungicide	26132	Flowers
					Lettuce (greenhouse)
					Ornamentals
					Tomato (greenhouse)
Fluazinam	1	Allegro 500 F	Fungicide	27517	Potato
Flucarbazone sodium	3	Everest 70 DF	Herbicide	26447	Wheat (durum)
					Wheat (spring)
		Everest Solupak 70 DF	Herbicide	26448	Wheat (durum)
					Wheat (spring)
		Florasulam F	Herbicide	27240	Wheat (spring)
Fludioxonil	6	Maxim 480 FS Seed Treatment	Fungicide	24732	Corn (field) seed
					Corn (sweet) seed
					Popcorn seed
					Soybean seed
		Maxim PSP Potato Seed Protectant	Fungicide	26647	Potato seed
		Maxim 480 FS Colourless Seed Treatment	Fungicide	27001	Amaranth (Chinese)
					Amaranth (leafy)
					Amaranth (spinach)
					Amaranth (tampala)
					Artichoke (Chinese)
					Artichoke (Jerusalem)
					Barley seed
					Bean (adzuki)
					Bean (asparagus)
					Bean (broad)
					Bean (field)
					Bean (kidney)
					Bean (lablab)
					Bean (lima)
					Bean (moth)
					Bean (mung)
					Bean (navy)
					Bean (pinto)
					Bean (rice)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Fludioxonil (cont'd)					Bean (runner)
					Bean (snap)
					Bean (sword)
					Bean (tepary)
					Bean (urd)
					Bean (wax)
					Bean (yardlong)
					Blackeyed pea
					Broccoli
					Broccoli (Chinese)
					Broccoli (raab)
					Brussel sprout
					Buckwheat seed
					Burdock (edible)
					Cabbage
					Cabbage (Chinese, bok choy)
					Cabbage (Chinese, mustard)
					Cabbage (Chinese, napa)
					Carrot
					Cassava
					Catjang
					Celery
					Celery (Chinese)
					Celery (root)
					Celtuce
					Chervil
					Chickpea
					Chicory
					Chinese waxgourd
					Citron melon
					Collards
					Corn (field) seed
					Corn salad
					Corn (sweet) seed
					Cowpea
					Cress (garden)
					Cress (upland)
					Cucumber
					Dandelion
					Dock
					Eggplant seed

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Fludioxonil (cont'd)					Endive
					Fennel (finocchio)
					Garlic seed
					Garlic (great headed)
					Gherkin
					Ginger
					Gourd edible
					Gourd edible (Chinese okra)
					Gourd edible (cucuzza)
					Gourd edible (hechima)
					Gourd edible (hyotan)
					Grain sorghum seed
					Guar
					Herbs and spices seed
					Horseradish
					Jackbean
					Kale
					Kohlrabi
					Leek seed
					Lentil
					Lettuce (head and leaf)
					Longbean (Chinese)
					Lupin (grain)
					Lupin (sweet)
					Lupin (white)
					Millet (pearl) seed
					Millet (proso) seed
					Momordica
					Muskmelon (all)
					Mustard greens
					Mustard spinach
					Oat seed
					Onion (dry bulb and green) seed
					Onion welch seed
					Parsley
					Parsnip
					Pea (crowder)
					Pea (dwarf)
					Pea (edible-pod)
					Pea (English)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Fludioxonil (cont'd)					Pea (field)
					Pea (garden)
					Pea (green)
					Pea (pigeon)
					Pea (snow)
					Pea (southern)
					Pea (sugar snap)
					Peanut seed
					Pepper
					Pepper (bell) seed
					Pepper (chili) seed
					Pepper (cooking) seed
					Pepper (pimento) seed
					Pepper (sweet) seed
					Popcorn seed
					Pumpkin
					Purslane (garden)
					Purslane (winter)
					Raddicchio
					Radish
					Radish (Oriental)
					Rape greens
					Rapeseed
					Rhubarb
					Rice (wild)
					Rutabaga
					Rye seed
					Salsify (black)
					Salsify (oyster)
					Salsify (spinach)
					Shallot seed
					Soybean seed
					Spinach
					Spinach (New Zealand)
					Spinach (vine)
					Squash (all)
					Sunflower seed
					Swiss chard
					Triticale seed
					Tomato seed
					Turnip

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Fludioxonil (cont'd)					Watermelon
					Wheat
		Maxim XL Seed Treatment	Fungicide	27071	Corn (field)
					Corn (sweet)
					Popcorn
		Apron Maxx RTA	Fungicide	27577	Bean (cranberry)
					Bean (dark red kidney)
					Bean (light red kidney)
					Bean (white)
					Chickpea
					Lentil
					Pea (dry)
					Pea (field)
					Soybean
		Switch 62.5	Fungicide	28189	Onion (dry bulb)
					Onion (green)
					Strawberry
Glyphosate (glyphosate acid)	5	Touchdown DG	Herbicide	24460	Apple
					Cherry (sour)
					Cherry (sweet)
					Forage (grass)
					Forage (legume)
		Ipco Roundup Transorb	Herbicide	25455	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Flax
					Forage
					Pea
					Soybean
		Nufarm Credit	Herbicide	25866	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Flax
					Forage
					Pea
					Soybean

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (glyphosate acid) (cont'd)		Touchdown IQ	Herbicide	27192	Apple
					Bean (white)
					Canola
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn (field)
					Corn (sweet)
					Flax
					Forage (grass)
					Forage (legumes)
					Forage (seed)
					Pea (field)
					Soybean
		Touchdown IQ II	Herbicide	28072	Apple
					Bean (white)
					Canola
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn (field)
					Corn (sweet)
					Flax
					Forage (grass)
					Forage (legumes)
					Forage (seed)
					Pea (field)
					Soybean
Glyphosate (mono-ammonium salt)	8	Roundup Dry	Herbicide	23084	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Dry	Herbicide	23857	Apple
					Canola

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (mono-ammonium salt) (cont'd)					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Renew	Herbicide	24708	Canola
					Corn
					Flax
					Forage (grass)
					Pea
					Soybean
		Roundup Dry	Herbicide	24874	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn (field)
					Corn (sweet)
					Flax
					Forage establishment
					Lentil
					Pea (field)
					Soybean
		Roundup Renew	Herbicide	24985	Canola
					Flax
					Forage
					Pea
					Soybean
		MON 78015	Herbicide	27018	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn (field)
					Flax
					Forage
					Pea
					Soybean
		Nufarm Credit Dual Salt	Herbicide	27739	Apple

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (mono-ammonium salt) (cont'd)					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Flax
					Forage
					Pea
					Soybean
					Sugar beet
		MON 78634	Herbicide	27936	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn (field)
					Corn (sweet)
					Flax
					Forage
					Pea (field)
					Soybean
					Sugar beet
Glyphosate (isopropylamine salt)	33	Roundup Original	Herbicide	13644	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Wrangler	Herbicide	20862	Apple
					Canola

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Laredo	Herbicide	20863	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Renegade	Herbicide	20864	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Ipco Roundup Original	Herbicide	20865	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Manage 780	Herbicide	22412	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Forage
					Pea
					Soybean
		Victor	Herbicide	22806	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Glyfos	Herbicide	24359	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Roundup Transorb	Herbicide	25344	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn (field)
					Corn (sweet)
					Flax
					Forage (grass)
					Forage (legumes)
					Pea (field)
					Soybean
					Sugar beet
		Vantage Plus	Herbicide	26171	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Vantage	Herbicide	26172	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Maverick	Herbicide	26429	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Eclipse B	Herbicide	26634	Canola
		Nufarm Credit TMP	Herbicide	26704	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Cheminova	Herbicide	26828	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Flax

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Glyphosate Herbicide	Herbicide	26846	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		MON 77280	Herbicide	26916	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		MON 77569	Herbicide	26917	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		MON 78077	Herbicide	26918	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)		MON 78112	Herbicide	26964	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		MON 78754	Herbicide	27041	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Ipco Factor	Herbicide	27090	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Weedaway Factor	Herbicide	27104	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Glyfos AU	Herbicide	27287	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Laredo	Herbicide	27405	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Original 360	Herbicide	27457	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Vantage Plus Max	Herbicide	27615	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
		Nufarm Credit Dual Salt	Herbicide	27739	Apple
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Flax

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Forage
					Pea
					Soybean
					Sugar beet
		Deputy Liquid Herbicide	Herbicide	27772	Apple
					Canola
					Canola (rapeseed)
					Cherry
					Corn
					Flax
					Forage
					Pea
					Soybean
		Laredo Plus	Herbicide	27810	Apple
					Canola (rapeseed)
					Cherry
					Corn
					Flax
					Forage
					Pea
					Soybean
		Credit Plus	Herbicide	27950	Apple
					Canola (rapeseed)
					Cherry
					Corn
					Flax
					Forage
					Pea
					Soybean
		Maverick II	Herbicide	28245	Apple
					Canola (rapeseed)
					Cherry
					Flax
					Forage
					Pea
					Soybean
		Clearout 41 Plus Herbicide Solution	Herbicide	28322	Apple
					Canola

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)					Cherry
					Corn
					Flax
					Sugar beet
Glyphosate (ethanolamine salt)	1	Roundup Tansorb Max	Herbicide	26920	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
Glyphosate (potassium salt)	26	MON 78460	Herbicide	27486	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn (field)
					Corn (sweet)
					Flax
					Forage
					Pea (field)
					Soybean
		Roundup Weathermax	Herbicide	27487	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
					Sugar beet
		MON 78271	Herbicide	27488	Apple
					Canola
					Cherry (sour)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Ultra	Herbicide	27707	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Max	Herbicide	27763	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Ultra Liquid	Herbicide	27764	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage
					Pea
					Soybean
		Roundup Ultra Max	Herbicide	27839	Apple
					Canola
					Canola (rapeseed)
					Cherry
					Corn

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Renegade HC	Herbicide	27946	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Renegade+ Liquid	Herbicide	27948	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Andale	Herbicide	27988	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Outlaw	Herbicide	27989	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Shootout Liquid	Herbicide	27990	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Bronco Liquid	Herbicide	27992	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Pea
					Soybean
					Sugar beet
		Cutter Liquid	Herbicide	27997	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Holster Liquid	Herbicide	28002	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Manage Liquid	Herbicide	28005	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Sugar beet
		Renegade Liquid	Herbicide	28012	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Shootout HC Liquid	Herbicide	28018	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Renegade Plus	Herbicide	28019	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)		Outlaw HC Liquid	Herbicide	28020	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Manage HC Liquid	Herbicide	28021	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Holster HC Liquid	Herbicide	28024	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Bronco HC Liquid	Herbicide	28027	Apple
					Canola

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Andale HC Liquid	Herbicide	28039	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Cutter HC Liquid	Herbicide	28041	Apple
					Canola
					Canola (rapeseed)
					Cherry (sour)
					Cherry (sweet)
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Round-up Transorb HC Liquid	Herbicide	28198	Apple
					Canola

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (potassium salt) (cont'd)					Canola (rapeseed)
					Cherry
					Chickpea
					Corn
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
Glyphosate (trimethylsulfonium salt)	5	Touchdown 480	Herbicide	23971	Apple
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Soybean
		Touchdown XP	Herbicide	24318	Apple
					Canola
					Cherry
					Flax
					Forage
					Ginseng (North American)
					Pea
					Soybean
					Sugar beet
		Glyphosate Trimesium 640	Herbicide	25272	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (trimethylsulfonium salt) (cont'd)		Glyphosate Trimesium 480	Herbicide	25273	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
		Touchdown 600	Herbicide	26458	Apple
					Canola
					Cherry (sour)
					Cherry (sweet)
					Corn
					Flax
					Forage (grass)
					Forage (legume)
					Pea
					Soybean
Imazamox	4	Viper WDG	Herbicide	25110	Soybean
		AC 299,263 70 WDG	Herbicide	25496	Canola
					Wheat
		Meridian WDG	Herbicide	26463	Soybean
		AC 299,263 120 AS	Herbicide	26705	Wheat
Mefenoxam	3	Ridomil Gold 480 EC	Fungicide	25384	Apple
					Bean (snap)
					Blueberry (highbush)
					Cucumber
					Ginseng
					Hops
					Potato
					Raspberry
					Strawberry
					Tobacco (field)
		Apron XL LS	Fungicide	25585	Alfalfa
					Bean (field)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Mefenoxam (cont'd)					Bean (green)
					Bean (kidney)
					Bean (lima)
					Bean (navy)
					Bean (pole)
					Bean (snap)
					Bean (string)
					Bean (wax)
					Carrot (export only)
					Chickpea
					Lentil
					Onion
					Pea (field)
					Pea (garden)
					Soybean
					Spinach (export only)
					Spinach seed
					Sugar beet
		Ridomil Gold 1G	Fungicide	26612	Carrot
					Ginseng
					Lettuce (head)
Mesotrione	1	Callisto 480 SC	Herbicide	27833	Corn (field)
					Corn (seed)
					Corn (sweet)
Methoxyfenozide	1	Intrepid 240 F	Insecticide	27786	Apple
Mustard seed and ∝olefin sulfonate, sodium	1	Exit™ Concentrate Rodenticide	Rodenticide	27400	Richardson's ground squirrels
Pinoxaden	1	Axial 100 EC	Herbicide	28150	Barley
					Wheat (durum)
					Wheat (spring)
Prohexadione calcium	1	Apogee	Plant growth regulator	28042	Apple
Pymetrozine	2	Endeavor 50 WG	Insecticide	27273	Ornamentals (greenhouse)
					Ornamentals (outdoor)
					Pepper (greenhouse)
					Tomato (greenhouse)
		Fulfill 50 WG	Insecticide	27274	Potato

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Pyrimethanil	1	Scala SC	Fungicide	28011	Apple
					Grape
					Pear
					Potato
					Strawberry
s-Metolachlor	4	Dual Magnum Agricultural	Herbicide	25728	Bean (green snap)
					Bean (kidney)
					Bean (lima)
					Bean (pinto)
					Bean (white)
					Bean (yellow snap)
					Bean (black)
					Bean (cranberry)
					Corn (hybrid)
					Corn (silage)
					Corn (sweet)
					Corn seed
					Lupin (white sweet)
					Pea (processing)
					Potato
		Dual II Magnum	Herbicide	25729	Bean (black)
					Bean (cranberry)
					Bean (green snap)
					Bean (kidney)
					Bean (lima)
					Bean (otebo)
					Bean (pinto)
					Bean (white)
					Bean (yellow snap)
					Corn (hybrid)
					Corn (silage)
					Corn (sweet)
					Corn seed
					Lupin (white sweet)
					Pea (processing)
					Potato
					Soybean
		Dual II Magnum SI	Herbicide	26418	Corn (hybrid)
					Corn (silage)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
s-Metolachlor (cont'd)					Corn (sweet)
					Corn seed
					Soybean
		Dual Magnum Soybean	Herbicide	27363	Soybean
Spinosad	5	Conserve 480 SC	Insecticide	26834	Turf
		Success 480 SC	Acaricide, insecticide	26835	Apple
					Apricot
					Arugula
					Bean (snap)
					Broccoli
					Broccoli (Chinese)
					Broccoli (raab/rapini)
					Broccolo cavalo
					Brussels sprout
					Cabbage
					Cabbage (Chinese)
					Cabbage (Chinese, bok choy)
					Cabbage (Chinese, mustard)
					Cabbage (Chinese, napa)
					Cardoon
					Cauliflower
					Celery
					Celery (Chinese)
					Celtuce
					Cherry (ground)
					Cherry (sweet)
					Cherry (tart)
					Chervil
					Chokecherry
					Collards
					Corn (sweet)
					Crabapple
					Cress (garden)
					Cress (upland)
					Cucumber (greenhouse)
					Eggplant
					Endive
					Florence fennel

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Spinosad (cont'd)					Horseradish
					Kale
					Kohlrabi
					Lettuce (head)
					Lettuce (leaf)
					Mustard greens
					Nectarine
					Orach
					Parsley
					Peach
					Pear
					Pear (Oriental)
					Pepino
					Pepper (bell)
					Pepper (chili)
					Pepper (non-bell)
					Pepper (sweet non-bell)
					Plum
					Plum (chickasaw)
					Plum (damson)
					Plum (Japanese)
					Potato
					Prune
					Quince
					Radiccio
					Radish
					Radish (Oriental)
					Rape greens
					Rhubarb
					Rutabaga
					Spinach
					Spinach (mustard)
					Spinach (New Zealand)
					Spinach (vine)
					Swiss chard
					Tomatillo
					Tomato
					Turf
					Turnip
		Conserve 120 SC	Insecticide	27278	Turf

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Spinosad (cont'd)		Entrust 80W	Insecticide	27825	Potato
		GF-120 NF Naturalyte Fruit Fly Bait	Insecticide	28336	Cherry
					Blueberry
Tebufenozide	2	Mimic 240 LV	Insect growth regulator, insecticide	24502	Forestry
					Woodlands
		Confirm 240 F	Acaricide, insect growth regulator, insecticide	24503	Apple
					Crabapple
					Cranberry
					Greenhouse ornamentals
					Lettuce (greenhouse)
					Pear
					Pepper (greenhouse)
					Tomato (greenhouse)
Trifloxystrobin	3	Compass 50 WG	Fungicide	27527	Ornamentals
					Turf
		Stratego 250 EC	Fungicide	27528	Wheat (spring)
					Wheat (winter)
		Flint 50 WG	Fungicide	27529	Apple
					Crabapple
					Grape
					Grape (table)
					Grape (wine)
					Loquat mayhaw
					Pear
					Pear (Oriental)
					Quince
					Wheat (Canada prairie)
					Wheat (durum)
					Wheat (hard red)
					Wheat (soft white)
					Wheat (spring)
					Wheat (winter)
Zoxamide	1	Zoxium 80 W	Fungicide	26840	Grape

Table 1b Reduced-risk Chemical Active Ingredients, End-use Products and Uses Registered in Canada—Domestic Products (30 September 2006)

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Acetamiprid	1	Pristine RTU	Insecticide	27126	Amaranth leafy
					Apple
					Arugula
					Broccoli
					Broccoli (Chinese)
					Broccoli raab
					Brussel sprout
					Cabbage
					Cabbage (Chinese, bok choy)
					Cabbage (Chinese mustard, gai choy)
					Cabbage (Chinese, napa)
					Cardoon
					Cauliflower
					Cavalo broccolo
					Celery
					Celery (Chinese)
					Celtuce
					Chevril
					Chrysanthemum (edible leaved)
					Chrysanthemum (garland)
					Citrus (dried pulp)
					Collards
					Corn salad
					Crabapple
					Cress (garland)
					Cress (upland)
					Dandelion leaves
					Dock
					Endive
					Florence fennel
					Flowers
					Kale
					Kohlrabi
					Lettuce (head)

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Acetamiprid (cont'd)					Lettuce (leaf)
					Mizuna
					Mustard greens
					Mustard spinach
					Orach
					Ornamentals
					Parsley leaves
					Pear
					Pear (Oriental)
					Purslane (garden)
					Purslane (winter)
					Quince
					Radicchio
					Rape greens
					Rhubarb
					Spinach
					Spinach (New Zealand)
					Spinach (vine)
					Swiss chard
					Tomato (field)
Glyphosate (isopropylamine salt)	8	Roundup Ready-to-use Pull'n Spray	Herbicide	27506	Vegetable gardens
		Roundup Ready-to-use Pull'n Spray Foam	Herbicide	27507	Vegetable gardens
		TotalEx Concentrate Brush, Grass & Weed Killer Home Gardener	Herbicide	28464	Residential use
		TotalEx Concentrate Brush, Grass & Weed Killer Virterra	Herbicide	28467	Residential use
		TotalEx Ready-to-use Brush, Grass & Weed Killer Virterra	Herbicide	28469	Residential use
		TotalEx Ready-to-use Brush, Grass & Weed Killer Home Gardener	Herbicide	28470	Residential use

Reduced-risk Chemical	# of Products	Product Name	Product Type	Registration #	Uses
Glyphosate (isopropylamine salt) (cont'd)		TotalEx Super Concentrate Brush, Grass & Weed Killer Home Gardener	Herbicide	28471	Residential use
		TotalEx Super Concentrate Brush, Grass & Weed Killer Virterra	Herbicide	28472	Residential use
Spinosad	1	Conserve 120 SC	Insecticide	27285	Turf

Table 2 Reduced-risk Chemical Active Ingredients Registered or Pending Registration in Canada and the United States (30 September 2006)

Reduced-risk Active Ingredient	Registered and Pending Active Ingredients	
	United States	Canada
Acetamiprid(JR)	1	1
Acequinocyl	1	(1)
Aminopyralid(JR)	1	1
Azoxystrobin	1	1
Boscalid (BAS 510F)(JR)	1	1
Bifenazate	1	1
Bispyribac-sodium	1	N/A
Buprofezin	1	N/A
Carfentrazone-ethyl	1	N/A
Clofentezine	1	1
Cyazofamid(WS)	1	1
Cyhalofop-butyl	1	*
Cyprodinil(JR)	1	1
Diflubenzuron	1	1
Diflufenzopyr(JR)	1	1
Dinotefuran	1	N/A
Ecolyst	1	*
Etoxazole	1	N/A
Fenamidone	1	1
Fenhexamid(JR)	1	1
Fenpyroximate	1	N/A
Fluazinam	1	1
Flucarbazone sodium(WS)	1	1
Fludioxonil	1	1
Flumiclorac-pentyl	1	N/A
Fluroxypyr	1	N/A
Glufosinate-ammonium	1	1*
Glyphosate	1	1
Hexaflumuron	1	N/A
Hymexazol	1	N/A
Imazamox	1	1
Imazapic	1	N/A
Imazethapyr	1	1*

Reduced-risk Active Ingredient	Registered and Pending Active Ingredients	
	United States	Canada
Indoxacarb	1	(1)
Lambda-cyhalothrin	1	1
Lufenuron	1	N/A
Macalayea extract	1	N/A
Mefenoxam	1	1
Mesosulfuron-methyl	1	N/A
Mesotrione	1	1
Methoxyfenozide	1	1
Methyl anthranilate	1	1
Mustard seed and ∝olefin sulfonate, sodium(JR)	1	1
Novaluron(WS)	1	(1)
Noviflumuron	1	N/A
Penoxsulam	1	*
Pinoxaden(JR)	1	1
Prohexadione calcium	1	1
Pymetrozine	1	1
Pyrimethanil	(1)	1
Pyriproxyfen	1	1
Quinoxyfen	1	N/A
s-Dimethenamid	1	N/A
s-Metolachlor	1	1
Spinosad	1	1
Tebufenozide	1	1
Trifloxystrobin	1	1
Zoxamide(JR)	1	1
TOTAL	58	38
% COMPARISON	67.9	

* USEPA use pattern not applicable to Canada (e.g., rice, cotton, citrus). These active ingredients were not included in the percentage comparison.

(1) Pending registration

(JR) Joint review

(WS) Work share

N/A Not applicable

Table 2 Reduced-risk Chemical Active Ingredients Registered or Pending Registration in Canada and the United States (30 September 2006)

Reduced-risk Active Ingredient	Registered and Pending Active Ingredients	
	United States	Canada
Acetamiprid(JR)	1	1
Acequinocyl	1	(1)
Aminopyralid(JR)	1	1
Azoxystrobin	1	1
Boscalid (BAS 510F)(JR)	1	1
Bifenazate	1	1
Bispyribac-sodium	1	N/A
Buprofezin	1	N/A
Carfentrazone-ethyl	1	N/A
Clofentezine	1	1
Cyazofamid(WS)	1	1
Cyhalofop-butyl	1	*
Cyprodinil(JR)	1	1
Diflubenzuron	1	1
Diflufenzopyr(JR)	1	1
Dinotefuran	1	N/A
Ecolyst	1	*
Etoxazole	1	N/A
Fenamidone	1	1
Fenhexamid(JR)	1	1
Fenpyroximate	1	N/A
Fluazinam	1	1
Flucarbazone sodium(WS)	1	1
Fludioxonil	1	1
Flumiclorac-pentyl	1	N/A
Fluroxypyr	1	N/A
Glufosinate-ammonium	1	1*
Glyphosate	1	1
Hexaflumuron	1	N/A
Hymexazol	1	N/A
Imazamox	1	1
Imazapic	1	N/A
Imazethapyr	1	1*

Reduced-risk Active Ingredient	Registered and Pending Active Ingredients	
	United States	Canada
Indoxacarb	1	(1)
Lambda-cyhalothrin	1	1
Lufenuron	1	N/A
Macalayea extract	1	N/A
Mefenoxam	1	1
Mesosulfuron-methyl	1	N/A
Mesotrione	1	1
Methoxyfenozide	1	1
Methyl anthranilate	1	1
Mustard seed and ∝olefin sulfonate, sodium(JR)	1	1
Novaluron(WS)	1	(1)
Noviflumuron	1	N/A
Penoxsulam	1	*
Pinoxaden(JR)	1	1
Prohexadione calcium	1	1
Pymetrozine	1	1
Pyrimethanil	(1)	1
Pyriproxyfen	1	1
Quinoxyfen	1	N/A
s-Dimethenamid	1	N/A
s-Metolachlor	1	1
Spinosad	1	1
Tebufenozide	1	1
Trifloxystrobin	1	1
Zoxamide(JR)	1	1
TOTAL	58	38
% COMPARISON	67.9	

* USEPA use pattern not applicable to Canada (e.g., rice, cotton, citrus). These active ingredients were not included in the percentage comparison.

(1) Pending registration

(JR) Joint review

(WS) Work share

N/A Not applicable

Table 3a Biopesticides Registered in Canada—Commercial Products (30 September 2006)

Products containing a biopesticide active ingredient and additional non-reduced-risk chemical active ingredients are not included.

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Biopesticide	# of Products	Product Name	Product Type	Registration #
1-Methylcyclopropene (MCP)	1	SmartFresh Technology	Plant growth regulator	27778
Acetic acid	1	EcoClear (Commercial)	Herbicide	25528
Agrobacterium radiobacter	1	Dygall	Bactericide	21106
Aminoethoxyvinylglycine hydrochloride (AVG)	1	ReTain	Plant growth regulator	25609
Bacillus thuringiensis Berliner ssp. *kurstaki*	6	DiPel WP	Insecticide	11252
		Thuricide-HPC	Insecticide	11302
		Foray 48BA	Insecticide	24978
		DiPel 2X DF	Insecticide	26508
		Bioprotec CAF	Insecticide	26854
		Bioprotec 3P	Insecticide	27750
Bacillus thuringiensis serotype H-14	5	VectoBac 600L	Insecticide	19455
		VectoBac 200G	Insecticide	19466
		Aquabac 200G	Insecticide	26862
		Aquabac II_{xt}	Insecticide	27376
		Gnatrol DG	Insecticide	27821
Bacillus thuringiensis ssp. *tenebronis*	1	Novodor Flowable	Insecticide	24068
Benzyladenine	4	Promalin	Plant growth regulator	16636
		Accel	Plant growth regulator	24593
		Fascination	Plant growth regulator	27135

Table 3a Biopesticides Registered in Canada—Commercial Products (30 September 2006)

Products containing a biopesticide active ingredient and additional non-reduced-risk chemical active ingredients are not included.

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Biopesticide	# of Products	Product Name	Product Type	Registration #
1-Methylcyclopropene (MCP)	1	SmartFresh Technology	Plant growth regulator	27778
Acetic acid	1	EcoClear (Commercial)	Herbicide	25528
Agrobacterium radiobacter	1	Dygall	Bactericide	21106
Aminoethoxyvinylglycine hydrochloride (AVG)	1	ReTain	Plant growth regulator	25609
Bacillus thuringiensis Berliner ssp. *kurstaki*	6	DiPel WP	Insecticide	11252
		Thuricide-HPC	Insecticide	11302
		Foray 48BA	Insecticide	24978
		DiPel 2X DF	Insecticide	26508
		Bioprotec CAF	Insecticide	26854
		Bioprotec 3P	Insecticide	27750
Bacillus thuringiensis serotype H-14	5	VectoBac 600L	Insecticide	19455
		VectoBac 200G	Insecticide	19466
		Aquabac 200G	Insecticide	26862
		Aquabac II$_{st}$	Insecticide	27376
		Gnatrol DG	Insecticide	27821
Bacillus thuringiensis ssp. *tenebronis*	1	Novodor Flowable	Insecticide	24068
Benzyladenine	4	Promalin	Plant growth regulator	16636
		Accel	Plant growth regulator	24593
		Fascination	Plant growth regulator	27135

Biopesticide	# of Products	Product Name	Product Type	Registration #
Benzyladenine (cont'd)		Promalin	Plant growth regulator	27137
Chondostereum purpureum	1	Myco-Tech Paste	Herbicide	27020
Chondostereum purpureum (North American Strain Pathovar PFC2139)	1	Chontrol Paste	Herbicide	27823
Codling moth pheromone	2	Isomate-C Plus Codling Moth Pheromone	Insecticide	22899
		Paramount Aerosol	Insecticide	27369
Codling moth and leaf roller pheromone	1	Isomate-CM/LR Pheromone	Insecticide	27776
Colletotrichum gloeosporioides f.sp. *malvae*	1	BioMal	Herbicide	22359
Corn gluten meal	2	Nutrite Pre-emergent (Commercial)	Plant growth regulator	27728
		TurfMaize Pro	Plant growth regulator	27865
Cydia pomonella granulosis virus	1	Virosoft CP4	Insecticide	26533
Diatomaceous earth (100%)	6	Chemfree Insectigone (Commercial)	Insecticide	19166
		Chemfree Insectigone Agricultural	Insecticide	19215
		Chemfree Insectigone (Commercial)	Insecticide	19230
		Insect Stop (Commercial)	Insecticide	21039
		Insecto	Insecticide	22489
		Barn Fresh	Insecticide	27265
Diatomaceous earth (fresh water fossils)	2	Protect-It	Insecticide	24259
		PI2 Ready-To-Use	Insecticide	26194
Dried blood	2	Plantskydd Soluble Powder Concentrate (Commercial)	Animal repellent	27411

Biopesticide	# of Products	Product Name	Product Type	Registration #
Dried blood (cont'd)		Plantskydd Deer Repellent Pre-Mixed RTU Solution (Commercial)	Animal repellent	27656
Ethylene	9	Eco Sprout 2%	Plant growth regulator	26851
		Eco Sprout 3%	Plant growth regulator	27076
		Eco Sprout 5%	Plant growth regulator	27077
		Eco Sprout 8%	Plant growth regulator	27078
		Eco Sprout 13%	Plant growth regulator	27079
		Eco Sprout 21%	Plant growth regulator	27080
		Eco Sprout 35%	Plant growth regulator	27081
		Eco Sprout 69%	Plant growth regulator	27082
		Eco Sprout 100%	Plant growth regulator	27083
Formic acid	1	Nod	Acaricide	27835
Gibberellic acid	2	Activol	Plant growth regulator	11904
		Falgro	Plant growth regulator	27653
Gibberellin A4 mixed with gibberellin A7	4	Promalin (500 ml)	Plant growth regulator	16636
		Accel	Plant growth regulator	24593
		Fascination	Plant growth regulator	27135
		Promalin (10 × 500 ml)	Plant growth regulator	27137
Grape berry moth pheromone	3	Isomate-GBM	Insecticide	25147
		3M MEC-GBM	Insecticide	26517

Biopesticide	# of Products	Product Name	Product Type	Registration #
Grape berry moth pheromone (cont'd)		Isomate-GBM Plus	Insecticide	27525
Greater peachtree borer pheromone	1	Isomate-P Pheromone	Insecticide	27141
Hydrogen peroxide	1	Biosafe Oxidate	Bactericide, fungicide	27432
Iron phosphate (ferric phosphate)	3	Ferramol	Molluscicide	27085
		Sluggo	Molluscicide	27096
		Safer's Ferramol	Molluscicide	27157
Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate (S-methoprene)	4	APEX EC	Insect growth regulator	17247
		Kabat Tobacco Protector	Insect growth regulator	17324
		Precor EC	Insect growth regulator	21573
		Apex EC	Insect growth regulator	27473
Kaolin	1	Surround WP	Insect repellent	27469
Ophiostoma piliferum fungus	1	Sylvanex	Anti-sapstain wood preservative	27560
Oriental fruit moth pheromone	3	Isomate-M100	Insecticide	26981
		Isomate-M Rosso	Insecticide	27339
		3M Sprayable Pheromone	Insecticide	27647
Pantoea agglomerans C9-1	1	BlightBan C9-1	Crop bactericide	28392
Pantoea agglomerans E325	1	Bloomtime Biological™ FD Biopesticide	Crop bactericide, fungicide	28435
Potassium bicarbonate	1	Milstop	Fungicide	28095
Pseudozyma flocculosa	1	Sporodex L	Fungicide	27161
Putrescent whole egg solids	1	Deer-Away (Commercial)	Animal repellent	17667

Biopesticide	# of Products	Product Name	Product Type	Registration #
Silica aerogel	2	Protect-It	Insecticide	24259
		PI2	Insecticide	26194
Soap	2	Safer's Insecticidal Soap (Agricultural)	Acaricide, insecticide	14669
		Pro Insecticidal Soap Concentrate (1)	Insecticide	28270
Sodium chloride	1	Adios Ambros	Herbicide	28236
Streptomyces griseoviridis	1	Mycostop	Fungicide	26265
Trichoderma harzianum Rifai str. KRL-AG2	2	Rootshield Drench	Fungicide	27115
		Rootshield Granules	Fungicide	27116
Tomato pinworm pheromone	1	3M Sprayable Pheromone	Insecticide	27335
Verbenone	1	Verbenone Pouch	Insect repellent	28260
z-11-Tetradecenyl acetate	2	3M Sprayable Pheromone	Insecticide	25880
		3M MEC-LR Sprayable	Insecticide	27216

Table 3b Biopesticides Registered in Canada—Domestic Products (30 September 2006)

Products containing a biopesticide active ingredient and additional non-reduced-risk chemical active ingredients are not included.

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Biopesticide	# of Products	Product Name	Product Type	Registration #
Acetic acid	6	EcoClear	Herbicide	26522
		President's Choice Weed Controler Herbicide	Herbicide	27109
		Scotts Ecosense	Herbicide	27933
		Scotts Ecosense (Quick Connect Sprayer)	Herbicide	28178
		Scotts Ecosense (Pull 'N Spray)	Herbicide	28179
		Scotts Ecosense Fast Acting Weed Control Spray	Herbicide	28300
Bacillus thuringiensis Berliner ssp. *kurstaki*	2	Safer's BTK	Insecticide	24536
		Bioprotec ECO	Insecticide	27251
Bacillus thuringiensis serotype H-14	1	Aquabac 200G	Insecticide	27374
Black pepper oil	2	Scentagone	Animal repellent	25789
		Havahart	Animal repellent	25829
Capsaicin	16	Defiance Dog Repellent	Animal repellent	23115
		Pepper Spray	Animal repellent	23308
		The Original Black Max	Animal repellent	23548
		Dog D'Fense Clip Model	Animal repellent	25153
		Scentagone	Animal repellent	25789
		Havahart	Animal repellent	25829
		Squirrel Proof Premier	Animal repellent	26479
		Squirrel Proof Seed Saver	Animal repellent	26480
		MSI Mace	Animal repellent	26690

Biopesticide	# of Products	Product Name	Product Type	Registration #
Capsaicin (cont'd)		Squirrel Proof Suet Sunflower Blend	Animal repellent	26853
		Sabre	Animal repellent	27051
		Dog Beware	Animal repellent	27383
		Jogger Fogger	Animal repellent	27689
		Spike Dog Repellent	Animal repellent	27690
		UDAP	Animal repellent	27714
		Counter Assault Dog Deterrent	Animal repellent	27771
Corn gluten meal	3	TurfMaize	Herbicide	27491
		Nutrite Pre-emergent	Herbicide	27727
		WOW! (Without weeds)	Herbicide	28396
Diatomaceous earth (100%)	23	Chemfree Insectigone Crawling Insect Killer	Insecticide	19216
		Insect Stop	Insecticide	21038
		Insecolo	Insecticide	21149
		Insectigone Cockroach and Ant Killer	Insecticide	21340
		Insectigone Earwig Killer	Insecticide	21341
		Insectigone Ant Killer	Insecticide	21342
		Green Earth DIO	Insecticide	21936
		Insect Stop Insect Control	Insecticide	21951
		Stop Insect	Insecticide	21951.02
		Watkins	Insecticide	24921
		Insect Stop Cockroach & Ant Killer	Insecticide	25596
		Insect Stop Silverfish & Cockroach Killer	Insecticide	25597
		Insect Stop Earwig Killer	Insecticide	25598
		Insect Stop Ant Killer	Insecticide	25599
		Green Earth Indoor/Outdoor	Insecticide	26622
		Green Earth Ant & Roach Insect Dust	Insecticide	26679

Biopesticide	# of Products	Product Name	Product Type	Registration #
Diatomaceous earth (100%) (cont'd)		Raid EarthBlends	Insecticide	27185
		The House and Garden Insect Destroyer	Insecticide	28098
		(Plus Green) Eliminator Plus	Insecticide	28098.01
		The Ant Destroyer	Insecticide	28103
		(Plus Green) Eliminator Plus Ant Killer Insecticide	Insecticide	28103.01
		The Earwig Destroyer	Insecticide	28105
		(Plus Green) Eliminator Plus Earwig Destroyer Insecticide	Insecticide	28105.01
Diatomaceous earth (fresh water fossils)	3	Bug Out	Insecticide	27947
		The Cockroach and Ant Destroyer	Insecticide	28102
		The Silverfish and Cockroach Destroyer	Insecticide	28106
Dried blood	2	Plantskydd Deer Repellent Pre-Mixed RTU Solution	Animal repellent	27413
		Plantskydd Deer Repellent Soluble Powder	Animal repellent	27657
Formic acid	1	Mite Away II	Acaricide	27836
Iron phosphate (ferric phosphate)	3	NEU1165M	Molluscicide	26102
		Safer's	Molluscicide	26240
		Scotts Ecosense Slug & Snail Bait	Insecticide	28375
Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate (S-methoprene)	9	Vet-Kem Ovicollar for Cats	Insecticide	23120
		Vet-Kem Ovicollar for Dogs	Insecticide	23121
		Zodiac Collar for Cats	Insect growth regulator	23852
		Zodiac Collar for Dogs	Insect growth regulator	23853
		Hartz Reference 114	Insecticide	26255

Biopesticide	# of Products	Product Name	Product Type	Registration #
Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate (S-methoprene) (cont'd)		Hartz Control	Insecticide	26491
		Zodiac Fleatrol	Insect growth regulator	26496
		Vet-Kem Ovispot	Insect growth regulator, insecticide	26497
		Pre-strike	Insect growth regulator	28152
Muscalure	1	Farnam Fly Terminator	Insecticide	27438
Piperine	2	Scentagone	Animal repellent	25789
		Havahart	Animal repellent	25829
p-Menthane-3,8-diol	1	OFF!	Insect repellent	27194
Putrescent whole egg solids	3	Deer-Away	Animal repellent	17955
		Deer-Away Ready-to-Use	Animal repellent	18122
		Horti-Kure	Animal repellent	23455
Soap	21	Safer's Insecticidal Soap Concentrate	Acaricide, insecticide	14668
		Safer's Insecticidal Soap for Houseplants	Acaricide, insecticide	16561
		Green Cross® Insecticidal Soap for Flowers & Vegetables	Acaricide, insecticide	16607
		Safer's Flea Soap for Dogs	Insecticide	17307
		Safer's Flea Soap for Cats	Insecticide	17709
		Safer's De-Moss	Herbicide	18141
		Safer's Rose & Flower Insecticide RTU	Acaricide, insecticide	18355
		Safer's De-Moss Concentrate	Herbicide	18418
		Safer's Aphid & Whitefly	Insecticide	19444
		Safer's Spider Mite	Acaricide	19445
		Safer's Rose & Flower	Acaricide, insecticide	19929
		Safer's Rose & Flower Insecticide	Acaricide, insecticide	20793

Biopesticide	# of Products	Product Name	Product Type	Registration #
Soap (cont'd)		Green Earth Insecticidal Soap	Acaricide, insecticide	21111
		Green Earth Ready-to-spray Insecticidal Soap	Acaricide, insecticide	21112
		Green Earth Indoor Insecticidal Soap	Acaricide, insecticide	21113
		Green Earth Insecticidal Soap Hose Spray	Acaricide, insecticide	21321
		Raid Insecticidal Soap	Insecticide	21916
		Safer's Insecticidal Soap Concentrate	Acaricide, insecticide	22208
		Safer's Multi-Purpose Insecticidal Soap	Acaricide, insecticide	22772
		Safer's Insecticidal Soap	Acaricide, insecticide	23651
		Pro Insecticidal Soap	Insecticide	27812
Soybean oil	4	Blocker (oil)	Insect repellent	25749
		Blocker (lotion)	Insect repellent	25750
		Blocker (light herbal scent lotion)	Insect repellent	25751
		Blocker (spray)	Insect repellent	25752

Table 3c Biopesticides Registered in Canada—Restricted Products (30 September 2006)

Products containing a biopesticide active ingredient and additional non-reduced-risk chemical active ingredients are not included.

Refer to http://eddenet.pmra-arla.gc.ca/4.0/4.01.asp to view full label information.

Biopesticide	# of Products	Product Name	Product Type	Registration #
Bacillus sphaericus	3	Vectolex WDG	Insecticide	28007
		Vectolex CG	Insecticide	28008
		Vectolex WSP	Insecticide	28009
Bacillus thuringiensis Berliner ssp. *kurstaki*	8	Thuricide 48LV	Insecticide	17980
		DiPel 176	Insecticide	20599
		Foray 76B	Insecticide	24976
		Foray 48B	Insecticide	24977
		Bioprotec Aqueous	Insecticide	26535
		Bioprotec HP	Insecticide	27099
		Foray 96B	Insecticide	27489
		Bioprotec XHP	Insecticide	27749
Bacillus thuringiensis serotype H-14	6	VectoBac-200G	Insecticide	18158
		Teknar Granules	Insecticide	19239
		Teknar HP-D	Insecticide	19241
		VectoBac-1200L	Insecticide	21062
		Aquabac$_{XL}$	Insecticide	26860
		Aquabac 200G (Restricted)	Insecticide	26863
Capsaicin	20	Counter Assault Bear Deterrent	Animal repellent	22137
		Bear Scare	Animal repellent	22991
		Outdoorsman	Animal repellent	23797
		Bear D'Fense	Animal repellent	24202
		The Original Black Max	Animal repellent	24901
		BearShield	Animal repellent	25126

Biopesticide	# of Products	Product Name	Product Type	Registration #
Capsaicin (cont'd)		Spike Bear Deterrent	Animal repellent	25589
		Tactical O.C.	Animal repellent	25590
		Frontiersman	Animal repellent	26619
		Bearier Bear Deterrent (0.75%)	Animal repellent	26871
		Back-Off	Animal repellent	27380
		Bear Beware	Animal repellent	27381
		Bear Beware Plus	Animal repellent	27382
		Bear D'Fense Professional	Animal repellent	27685
		UDAP Pepper Power	Animal repellent	27715
		Trailguard	Animal repellent	27744
		Defiance Bear Repellent	Animal repellent	27748
		Spike Professional Bear Deterrent	Animal repellent	27926
		Trailguard Bear Attack Deterrent	Animal repellent	28409
		Frontiersman Bear Attack Deterrent	Animal repellent	28410
Neodiprion Abietis Nucleopolyhedrovirus	1	Abietiv Flowable	Insecticide	28304
NPV douglas fir tussock moth	2	Virtuss	Insecticide	17786
		TM Biocontrol-1	Insecticide	19293
NPV of the gypsy moth	1	NPV for Gypsy Moth Larvae	Insecticide	24869
Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate (S-methoprene)	4	Altosid	Insect growth regulator	21809
		Altosid	Insect growth regulator	22676
		Altosid XR	Insect growth regulator	27694
		Altosid Liquid	Insect growth regulator	28070